

S

pecial Exhibits



Dave Wilson - Swimmer

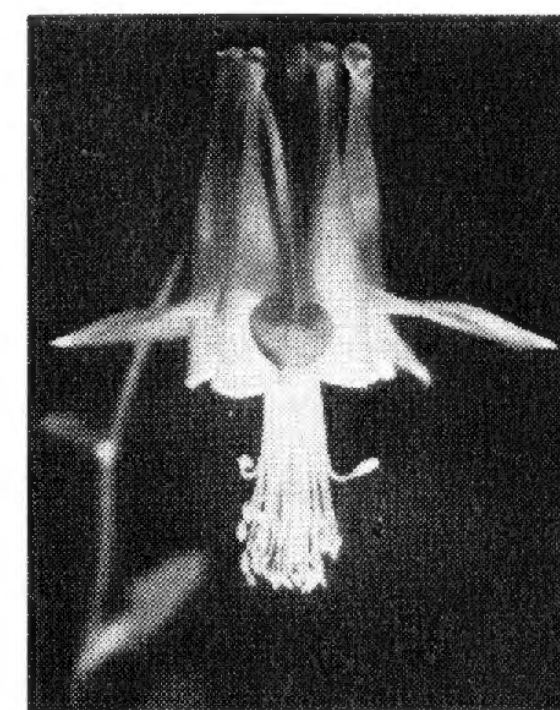
Shooting for the Gold, photographs of American athletes training and competing in preparation for the Olympic Games, continues through October in Peterson-McBean Galleries. These 80 full-color photographs are the work of Walter Iooss, Jr., a Sports Illustrated photographer. Julianne McNamara, Carl Lewis, Mark Breland and Greg Louganis are just a few of the athletes seen in moments of deep concentration, intense competition and exhilaration. Shooting for the Gold is sponsored by Fuji Photo Film U.S.A.

In Hohfeld Gallery the **Amber** exhibition continues to fascinate visitors. Peering through lenses, you can see insects that have been trapped inside this precious material for millions of years. Through November 12.

The last day to see the dramatic silkscreens, **Andy Warhol: Endangered Species**, will be September 3. Lovell White Hall will reopen on September 29 with a new show by artist Andreas Nottebohm entitled **Eyes Open Unlimited**. These vivid oil paintings of deep space are conceptions of unknown places that combine creative images with scientific fact. Mr. Nottebohm's work has been the focus of several one-man shows in Europe and the U.S.

The winning photographs from **The Photography Contest for Young People**

will be on display in Cowell Hall through September 3. The Cowell Hall Gallery will reopen on September 12 with photographs of **Pepperwood In Bloom**.



Pepperwood
In Bloom

Photographer Jo-Ann Ordano has captured in brilliant color the variety of wildflowers that can be found in the spring on the Academy's natural history preserve in Sonoma County.

Mexico As Seen By Her Children will close on September 4 and the buffet area will undergo renovation.

Morrison Planetarium

Sky Shows

The Water World, the daily sky show in the Morrison Planetarium looks at the most abundant element on our planet and compares Earth to other planets that are not so fortunate to have this life giving elixir.

Showtimes through Labor Day:
Daily at 11:00 a.m., 2:00 and 3:30 p.m.

Also daily at 12:30 p.m. through Labor Day is **Exploring the Skies of the Season**, a survey of the current night sky over San Francisco.

The Morrison Planetarium will be closed from September 4 through September 19. During that time there will not be Plantarium or Laserium shows.

The Morrison Planetarium will reopen on September 20 with **The Great American Star Factory**. This revival of one of the most popular shows ever presented will offer a look behind the scenes at the Morrison Planetarium. Viewers will learn how star shows are written and produced

and how the special effects are created. A new sound system will add to the excitement of a trip through space to a landing on another planet.

Showtimes beginning September 20 are:
Weekdays at 2:00 p.m.; Saturday, Sunday and holidays at 11:00 a.m., 2:00 and 3:30 p.m.

Members are encouraged to use their free planetarium passes for any of these sky shows . . . and bring a guest!

Planetarium Concert Series

The Morrison Planetarium proudly presents its **Fall Concert Series**, three wonderful musical programs presented under the stars of the planetarium dome. (**Special discounts for members!**)



La Corte Musical

La Corte Musical
Tuesday, September 25
8:00 p.m.

The performances of **La Corte Musical** have been praised in the press from London to San Francisco. More than just medieval Spanish music (inspired by the artistic and intellectual spirit of the court of Alfonso X the Wise, King of Spain from 1254-1284), **La Corte Musical** combines detailed research and theatrical staging to give each performance a unique and vibrant communicative impact. Audiences on both sides of the Atlantic give rave reviews to La Corte Musical!

Bay Area Rapid Brass
Tuesday, October 16 **8:00 p.m.**

Classical selections from the 16th through the 20th centuries will be presented under the stars of the Morrison Planetarium by this highly acclaimed group of four professional musicians. The instrumentation includes trumpets, trombone, French horn, and flugelhorn, to name a few, and in a modern suite of original music; primitive instruments including seashells and kelp horns are added for some exciting delights to the ear!

Classical and Chamber Music
Tuesday, November 13 **8:00 p.m.**

Harp, flute and viola blend in this third of the Fall series with solo classical and chamber music selections by musicians Michael Rado and Deborah Charness. Under the man-made heaven of the planetarium dome you can enjoy selections by Tournier, Saint Seans, Debussy, Hindemith and others.

Get your series tickets today! If you buy the complete series, the cost to members is \$10.00 for the series of three; \$15.00 for non-members. Individual performances are \$4.00 for members and \$6.00 for non-members. Advance tickets are available from the planetarium office. Call 668-8054 for information. Tickets will be sold at the door before each concert.

Laserium

Two exciting light shows are presented in Morrison Planetarium; one show with the music of Pink Floyd, and the other featuring movie hits by John Williams.

Showtimes through September 3:
Wednesday at 5:00 p.m.; Thursday at 9:00 p.m.; Friday and Saturday at 5:00, 7:30, 9:00 and 10:30 p.m.; Sunday at 5:00, 7:30 and 9:00 p.m.

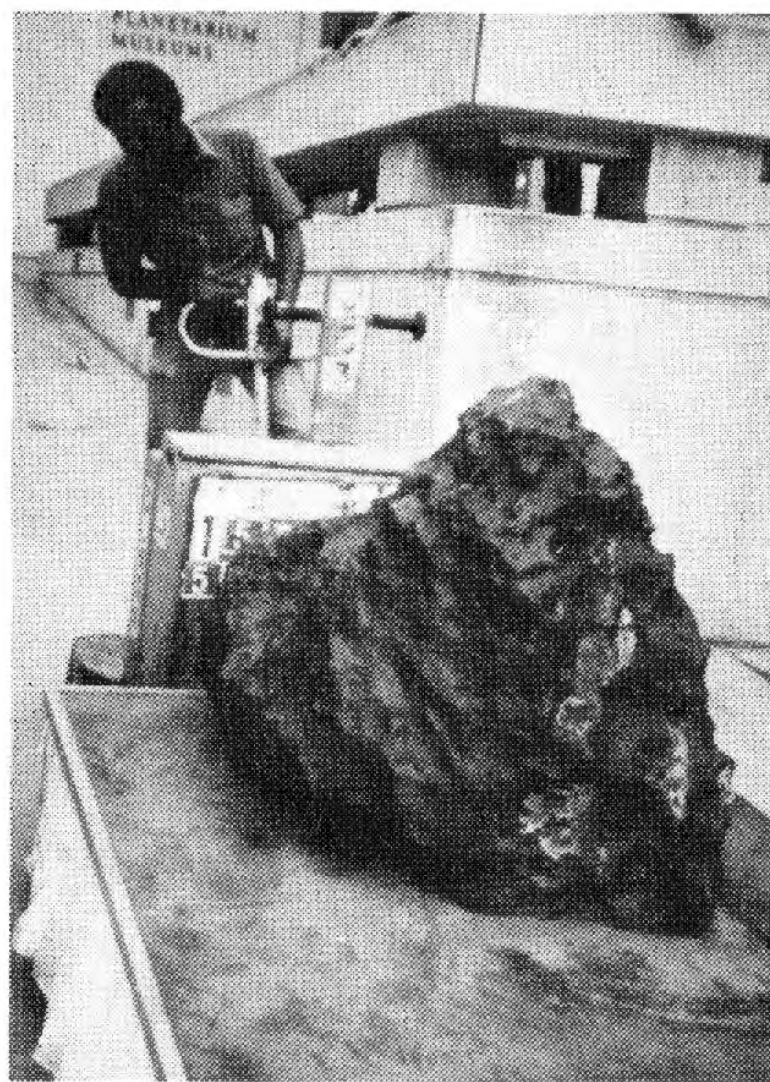
There will not be any Laserium shows from September 4 through 19.

Showtimes beginning September 20:

Thursday at 9:00 p.m., Fridays and Saturdays at 7:30, 9:00 and 10:30 p.m.; Sunday at 7:30 and 9:00 p.m.

Inside the Academy

The Academy's radio show "Science in Action" can now be heard on station KNX in Los Angeles. The show, which features Academy staff talking about current science topics, was first aired by KCBS in March of 1983; it is now heard each week by almost 2 million listeners from Portland to Los Angeles. "Science In Action" can be heard every weekday at 8:40 a.m. on KQED-FM and at 3:40 and 10:15 p.m. and throughout the weekend on KCBS.



How to move a
2½ ton meteorite

The Old Woman Meteorite has been acquired from the Bureau of Land Management on a six month loan. The 2.5 ton piece of iron is the largest meteorite ever found in California and was discovered in the Old Woman Mountains in 1976 by three prospectors. The 4.7 billion year old visitor from

outer space is located in Cowell Hall within reach of curious minds and hands. This is one display you can even climb on!

The following scientific papers have recently been published by the California Academy of Sciences:

Kavanaugh, David H. Studies on Nebriini (Coleoptera: Carabidae), v. New Nearctic *Nebria* taxa and changes in nomenclature. *Proceedings*, v. 43:12

Roberts, Tyson R. Skeletal anatomy and classification of the neotenic Asian salmoniform superfamily Salangoidea (Icefishes or Noodlefishes). *Proceedings*, v. 43:13

Tricas, Timothy C., and John E. McCosker. Predatory behavior of the white shark (*Carcharodon carcharias*), with notes on its biology. *Proceedings*, v. 43:14

If you interested in receiving copies of these publications, please contact Mary Stillwell at 221-5100, ext. 272 on weekday mornings.

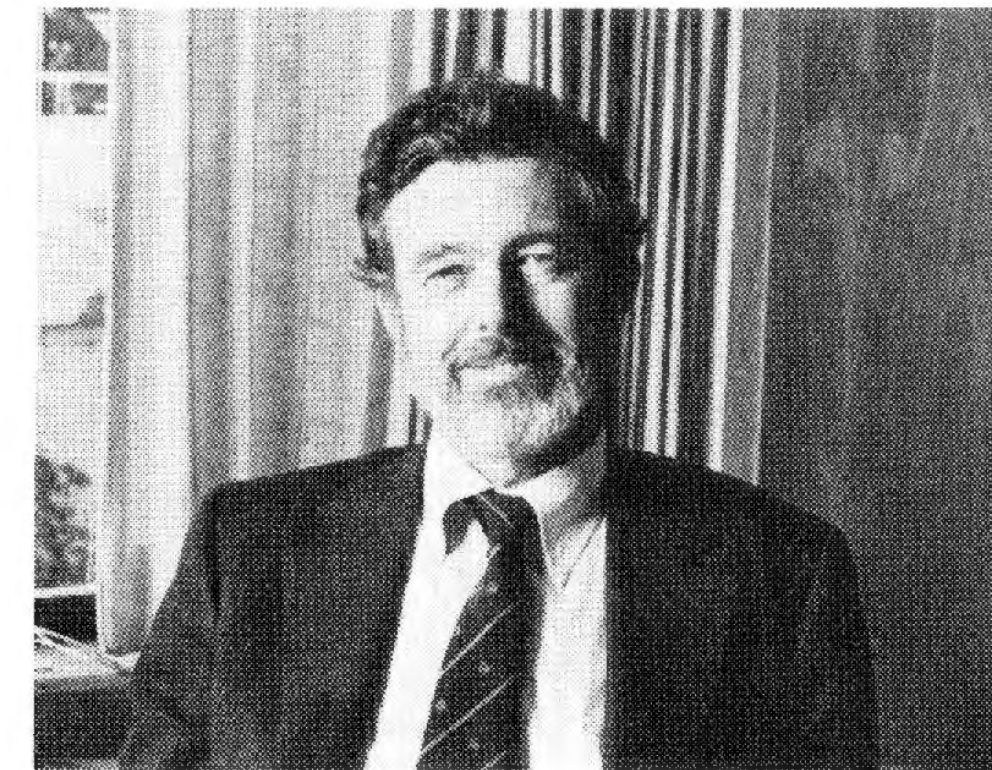
The Academy is happy to welcome to the staff Dr. Norman Hammond who left Rutgers University to become Curator and Chairman of the Department of Anthropology. An expert on the Maya culture, he is currently involved in the excavation of the ancient Maya city of Nohmul in Belize.

Dr. Hammond has authored many publications including the 1982 National Geographic article "Unearthing the oldest known Maya."

Under the leadership of Dr. Peter Rodda the Department of Geology is currently finishing work on a contract with the U.S. Army Corps of Engineers. Under the terms of the "Cottonwood Project" Dr. Rodda and his team have been evaluating the paleontological resources of two reservoir sites in the N.W. Sacramento Valley. The area is one of the great places in the world for ammonites and other fossilized mollusks. The Academy team has found many valuable fossils — elephants, camels, horses and rodents — and a 3½ foot ammonite, probably the largest ever found. The huge ammonite has been brought to the Academy where it will be prepared for display in the new Life Through Time Hall which is scheduled to open in 1986.

Registration for the fall classes of Junior Academy will take place on Saturday, September 22 from 10:00 a.m. to 1:00 p.m. in Morrison Auditorium. Classes in the fall session will begin on Saturday, September 29. If you would like your child's name to be added to the Junior Academy mailing list or if you have any questions please call 668-7376.

Meet the Staff



Dr. Frank H. Talbot

When Dr. Frank Talbot called his first staff meeting as Executive Director of the California Academy of Sciences, he fired up an already eager staff to "become the greatest natural history museum in the world." He spoke of "sparking youngsters . . . encouraging the thousands of curious minds" which accompany almost half a million school children visitors each year.

Dr. Talbot himself was "sparked" as a youngster in his native South Africa by a patient scientist at the South African Museum in Cape Town who identified bits of life from tidepools. At the age of 18, Talbot discovered the fascinating variety of fishes that inhabit coral reefs and set his sights on a career in marine biology. He was awarded a Ph.D. in 1959. His research on coral reefs took him to Zanzibar, back to Cape Town and to Australia. He was a Visiting Research Scientist at Stanford University in 1962 and it was then he had his first look at the California Academy of Sciences.

In 1964 Talbot took the post of Curator of Fishes at the Australian Museum in Sydney. One year later he was named Director and he held that post for nine years where he doubled the activities of that prestigious institution. Among his many achievements was the founding of a permanent research facility on the Great Barrier Reef, called Lizard Island Research Station. His research and administrative duties continue to go hand in hand; he still spends at least one month a year studying the distribution of coral reef species on the Great Barrier Reef with his wife, Sue, who is also a scientist, and his grown children.

This month Readers' Digest Australia will release a monumental work entitled "The Great Barrier Reef." Thirty authors contributed to the book which is illustrated with over 1,000 color plates. Dr. Talbot, the scientific consultant for the book, wrote the introduction, chose the authors and oversaw the editing. Both Frank and his wife contributed chapters as well. It will sell for about \$35.

Since Dr. Talbot became Executive Director of the California Academy of Sciences, the research departments and public programs for members have been dramatically expanded. Scientists such as Dr. Norman Hammond and Jane Goodall have been added to the museum's roster; exhibits including permanent renovations in African Hall and the new Earth and Space Hall (opening October 18!) have been very exciting. Plans for future renovations include a "Life Through Time" display that will combine living animals and prehistoric fossils and the upgrading of North American Hall which basically has not been touched since 1916.

Granted, the entire staff of the California Academy of Sciences has always been energetic and creative, but working under the banner of excellence held by Dr. Talbot has made the Natural History Museum and Aquarium a better place for all of us on its way to "the best in the world."

Traditional Arts

Visit the museum on Saturday afternoon at 1:00 p.m. to interact with and enjoy the diversified ethnic groups of the Bay Area. On two Saturdays this month one of these groups will share its cultural heritage in a presentation of one of their traditional arts.

September 22 — Wanda Tomczykowska presents a showing of antique costumes, modeled by members of the Polish Arts and Culture Foundation.

September 29 — Yoshie Kajimura and master chef Hugh Hiro prepare Japanese *sushi*.

Adult Education And Travel

Botanizing California

Orientation: Sept. 25 & 26 6:30-9:00 p.m.
Field trips: Oct. 6-8 and Oct. 20-21
Instructor: Dr. Glenn Keator, Botanist
Cost: \$60 members, \$75 non-members,
includes instruction only.

The beautiful northern California coast will be the site of two weekend field trips as you study the unique plant communities of the area. You will travel to the north coastal redwoods and Jughandle Ecological Staircase to learn about the fascinating relationship between geology, geography, climate and the plant adaptations created in response to each. A weekend orientation beforehand will familiarize you with the habitats and flora of this very special area. This course is the first in a two-year series of classes that will transect California from the seashore to alpine mountains and high desert, focusing on plant communities typical of each locale.

Photographing the Gold Country

Lectures: Sept. 5, 12 and 27 7:00-9:00 p.m.
Field trip: Sept. 14 - 16
Instructor: Robert Holmes
Cost: \$125 members, \$150 non-members,
includes lodging, tour and instruction.

The California Gold Country is the focus of this three day workshop with Robert Holmes, whose major photographic exhibit will open at the Academy in April. The colors, landscapes, old buildings and mines provide endless subjects for the camera. Arrangements have been made for a special tour of the old Empire Mine in Grass Valley and accommodations are at the historic National Hotel in Nevada City. The trip and the classroom sessions will emphasize capturing the atmosphere and essence of the Gold Country on film.

Academy Expeditions, 1984

Papua New Guinea and the Islands of the Solomon Seas

September 19 - October 10

Three distinct and equally fascinating areas will be visited on this special tour. Under the leadership of Dr. Luis Baptista, Academy members will explore the Highlands of New Guinea, an area that remained undiscovered by the outside world until the 1930's. Members will then board the *M.V. Melanesian Explorer* to travel from the middle Sepik River to the sea, stopping at many villages along the banks of the Sepik. The trip concludes with visits to the pristine Trobriand Island group and the Siassi Islands. Marine biologist, Hugh Sweatman, will lecture on the coral reefs and sea life in this exquisite tropical environment. Costs are \$4453 for land/cruise/charter air arrangements and \$1790 for air fare. For information call the Academy Travel Office at (415) 221-4214.

Japan: The Old and The New

October 7 - 28

Japan is a special blend of tradition and high-paced technological change. To acquire a deeper understanding of Japan one must look at both the old and the new. This special tour, led by Mr. John Enamoto, of the Society of Asian Art, will focus on Japan's ancient treasures; the temples and shrines of Nikko, Ise, Nara and Kyoto, and Japan's natural treasures including the harmonious beauty of Lake Chuzenji and Nara Park. On a contemporary note the tour includes visits to the Canon Camera Factory and Fujitsu Computer Laboratories in Kawasaki. Costs for this tour are \$2750 plus air fare. For information and a brochure, please call Bryan International Travel at (415) 986-0967.

A UNIQUE TRAVEL OPPORTUNITY!

Antarctic Adventure

January 13-27, 1985

Travel aboard the *M.S. Lindblad Explorer* with Dr. John McCosker, Director of the Steinhart Aquarium, to one of the most remote and interesting places in the world: the Antarctic Peninsula. A starkly beautiful environment, the Peninsula is inhabited by birds and marine mammals of many kinds — creatures that seem not to fear man. This fifteen day experience begins with a flight to Buenos Aires and on to Ushuaia, Argentina, the most southerly city, there to board the *Explorer*. We will cruise past Cape Horn and across Drake's Passage, and on to Antrartica. Five days will be spent exploring and landing on the most exciting and scenic areas, including Paradise Bay with its glaciers and icebergs, Deception Bay with its steaming surf backed by active volcanic craters and cinder cones, various islands, and American and other Antarctic research stations. Returning northward, across Drake's Passage, the ship will visit Cape Horn Island, then proceed up Beagle Channel and the western section of the Straits of Magellan to Punta Arenas, the historic Chilean seaport. From there we fly to Santiago and home. Costs for this adventure range from \$4690 to \$8450 plus air. For information, call the Academy Travel Office at (415) 221-5100.

SPECIAL PREVIEW

Academy Expeditions, 1985

Plan your 1985 travel year in advance. There are diverse destinations with adventure and education for every traveler. For information call the Academy Travel Office at (415) 221-4214.

BAJA CALIFORNIA CIRCUMNAVIGATED

March 10-24

THE ISLAND WORLD OF INDONESIA

March 20 - April 7

THE GEOLOGY OF THE GRAND CANYON

April 7 - 12

A DIVE TRIP TO THE SEA OF CORTEZ

May 12 - 23

NORTH TO ALASKA

June 15 - 30

THE CANADIAN ROCKIES: A Nature Spectacular

July 19 - 28

KENYA ADVENTURE SAFARI

July 15 - 28

THE GRAND CANYON BY DORIES

August 18 - 31

THE HEARTLAND OF AFRICA

Zambia, Zimbabwe, and Botswana
August

GALAPAGOS ISLANDS

October

THE MONTH AT A GLANCE

September

- 3 Last day of **Andy Warhol: Endangered Species**
- 4 Last day of **Mexico As Seen By Her Children**
- 4 Last day of **Photography Contest For Young People**
- 4 Morrison Planetarium closes for renovation
- 10 Special Lecture - Tobias
- 12 Opening of **Pepperwood In Bloom**
- 12 Members Meeting
- 13 Members Meeting
- 20 **The Great American Star Factory** opens in the planetarium; **Laserium** shows resume
- 22 Traditional Arts Program: **Antique Polish Costumes**
- 25 Planetarium Concert Series: **La Corte Musical**
- 29 Traditional Arts Program: **Sushi preparation**
- 29 Opening of **Eyes Open Unlimited**

September Members' Meetings

Dates & Times

Matinee, 2:30 p.m., Wednesday,
September 12
Evenings, 8:00 p.m., Wednesday and
Thursday, September 12 and 13, 1984

Place

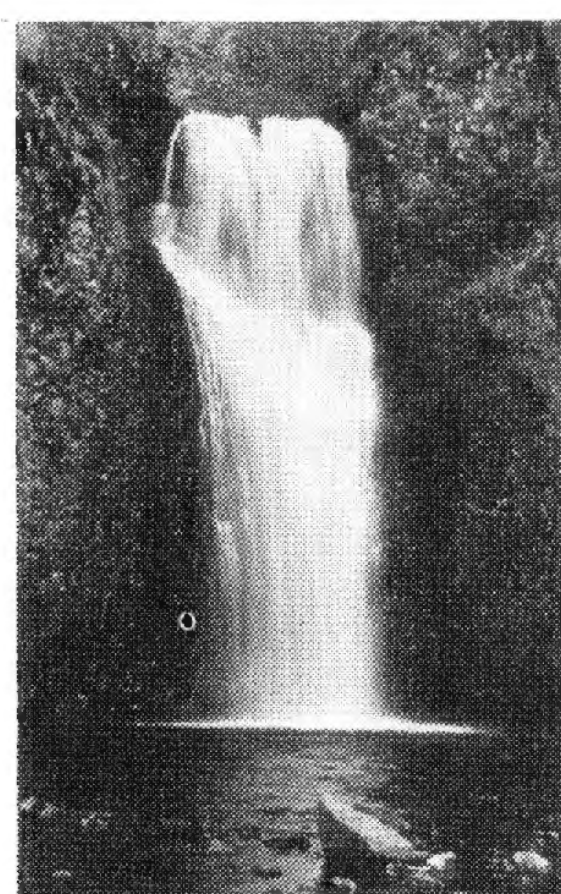
Morrison Auditorium

Speaker

Ron Cronin

Subject

Luminous Ring: An Allegory of Light and Water



Carried along by the music of Richard Wagner, we will follow the wind across the beautiful state of Oregon in this slide presentation. Against the stirring music of the "Ring of the Niebelung" we will travel from the rocky, wave washed coast, along the beaches, through the

spectacular Columbia Gorge, to the majesty of the Cascade Mountain Range. The program will conclude with scenes of the deserts of Eastern Oregon awash with a blaze of rainbows and sunsets.

Photographer Ron Cronin lives in Oregon and has presented many programs for Academy members including his fascinating studies of Mount St. Helens during its destructive eruption and its rebirth as the plants and animals slowly returned in the following months.

As usual, your membership card admits you through the main entrance at Cowell Hall or through the Wattis Hall entrance for the matinee presentation. Please be prepared to show your card once again at the auditorium door for the afternoon meeting.

Sneak Preview: On October 10 and 11, Cathy Pringle will present a slide lecture on "The Rainforests of Costa Rica."

Special Lecture

The California Academy of Sciences and the L.S.B. Leakey Foundation present

The 1984 Allen O'Brien Memorial Lecture

Dart, Taung and The "Missing Link": 60 Years After

Dr. Phillip V. Tobias
Monday, September 10
7:30 p.m. Morrison Auditorium

In November 1924 the Taung skull — first discovered of all Africa's "missing links" — came to light, and in February 1925 it was announced to the world by Professor Raymond A. Dart as *Australopithecus africanus*.

It was a critical breakthrough in the quest for our origins and dramatically swung the spotlight of the search for ancestors from Asia to Africa. It ultimately, moreover, compelled anthropologists to accept that a small brain alone is insufficient to disqualify it's owner from membership in the human family.

This lecture will capture not only the intense human drama woven around Dart's efforts to convince a reluctant world but also the new disclosures based on the latest research into the 1924-25 events.

As a paleoanthropologist, Dr. Tobias has studied fossils from many continents. He has been mainly responsible for studying and publishing the more than 50 hominid specimens excavated by Dr. L.S.B. Leakey and Dr. Mary Leakey at Olduvai Gorge, Tanzania. As a human biologist, Dr. Tobias has studied numerous ethnic groups of southern Africa and has authored several books and scientific papers.

Admission is \$5 for members of the Academy and the Leakey Foundation, and \$7 for non-members. Please send a self-addressed stamped envelope and a check made payable to the California Academy of Sciences to SPECIAL PROGRAMS, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. Telephone reservations cannot be accepted.

Golden Gate Park
San Francisco, California 94118-9961
(415) 221-5100

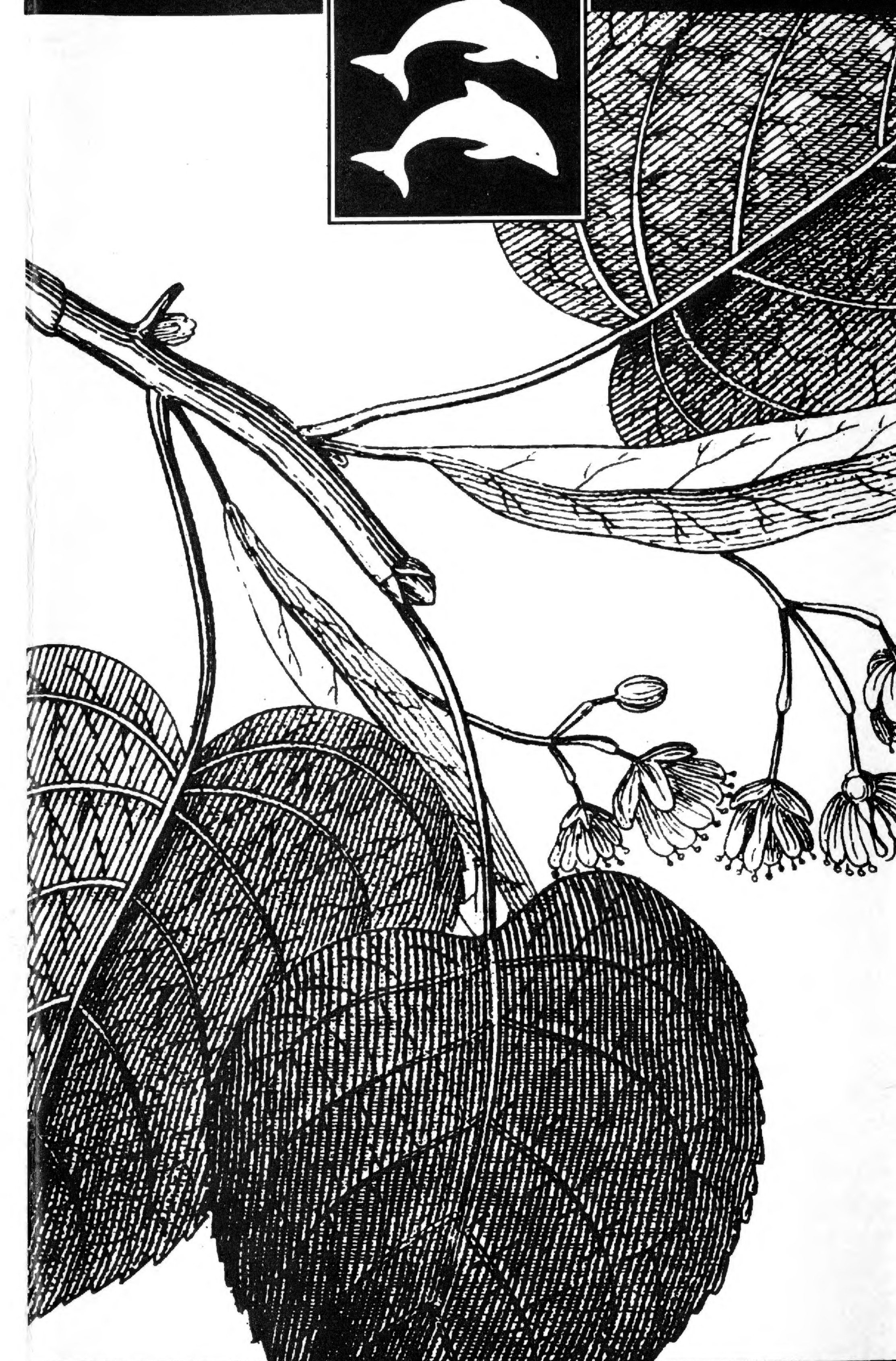
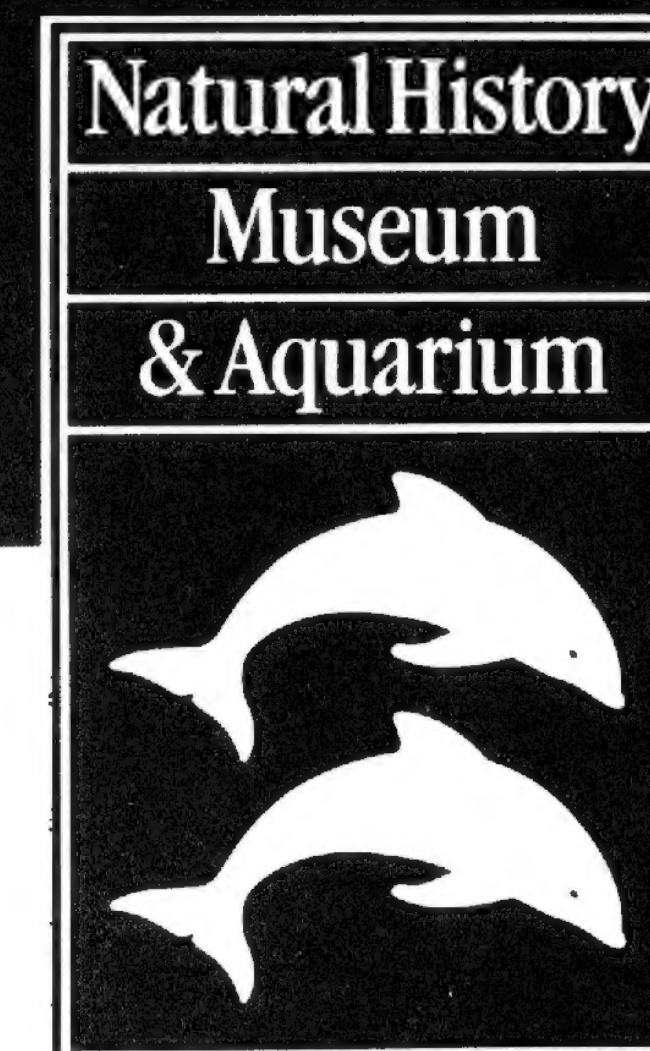
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California Academy of Sciences

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NEWSLETTER

September 1984

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